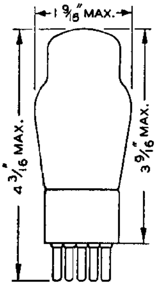
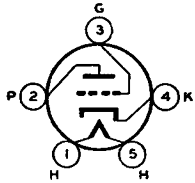


RCA-37

DETECTOR, AMPLIFIER



The 37 is a three-electrode general-purpose tube of the heater-cathode type for use as amplifier and detector.

CHARACTERISTICS

Heater Voltage (A. C. or D. C.)				6.3	Volts
Heater Current				0.3	Ampere
Plate Voltage	90	135	180	250 *max.*	Volts
Grid Voltage*	–6	–9	–13.5	–18	Volts
Plate Current	2.5	4.1	4.3	7.5	Milliamperes
Plate Resistance	11500	10000	10200	8400	Ohms
Amplification Factor	9.2	9.2	9.2	9.2	
Transconductance	800	925	900	1100	Micromhos
Grid-Plate Capacitance				2.0	$\mu\mu$f
Grid-Cathode Capacitance				3.5	$\mu\mu$f
Plate-Cathode Capacitance				2.9	$\mu\mu$f
Bulb					ST-12
Base					Small 5-Pin

* The d-c resistance in the grid circuit should not exceed 1.0 megohm.

INSTALLATION AND APPLICATION

The **base** pins of the 37 fit the standard five-contact **socket** which may **be** installed to hold the tube in any position. For **heater** operation and **cathode** connection, refer to INSTALLATION for type 6A8.

As an **amplifier,** the 37 is applicable to the audio- or the radio-frequency stages of a receiver. Recommended plate and grid voltages are shown under CHARACTERISTICS.

As a **detector,** the 37 may be operated with either grid leak and condenser or with grid bias. The plate voltage for the grid leak and condenser method is 45 volts. A grid leak of from 1 to 5 megohms used with a grid condenser of 0.00025 μf is suitable. For grid-bias detection a plate voltage of 250 volts, together with a negative grid bias of approximately 28 volts, may be used. The plate current should be adjusted to 0.2 milliampere with no input signal.

